SHUBHAM AGRAWAL

Computer Science Engineer

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🔗 Home Page   ⌂ github.com/ShubhamAgrawal-13   in linkedin.com/in/shubhamagrawal13

EDUCATION

International Institute of Information Technology, Hyderabad
M.Tech in Computer Science

📅 July 2019 - Present   📍 Hyderabad, Telangana, India

CGPA : **9.77**

Medicaps Institute of Science and Technology
B.E. in Computer Science

📅 Aug 2015 - June 2019   📍 Indore, M.P., India

CGPA : **8.8**

St. Mary Champion School
Senior Secondary Certificate (PCM)

📅 July 2013 - June 2015   📍 Indore, M.P., India

Percentage : **92%**

St. Mary Champion School
Higher Secondary Certificate

📅 July 2011 - June 2013   📍 Indore, M.P., India

CGPA : **8.2**

SKILLS

C, C++, Python, Java
HTML, CSS, JavaScript
Android, Docker, GIT
MySQL, Firebase

ACHIEVEMENTS

- IIIT-H **Dean's List 1 Award (Top 5% in batch)** Spring 2020
- IIIT-H **Dean's List 1 Award (Top 5% in batch)** Monsoon 2019
- Secured **AIR 388** in **GATE 2019**
- Meritorious Performance in the **1st Year of B.E.**

HONORS & AWARDS

- **Chancellor's scholarship**, RGPV Bhopal (2018)
- **Shri Dewang Mehta Excellence Award** (2016)

PROJECTS

DISTRIBUTED IoT PLATFORM
- Developed a distributed IoT platform for smart city automation.
- *Functionalities:* Development, Sensor Management and deployment.
- *Technologies used:* Docker, Flask, Python and Kafka

WIKI SEARCH ENGINE
- *Dataset used:* 42GB English Wikipedia dump
- *Pre-processing:* Stemming, Lemmatisation and Multilevel Indexing
- *Ranking:* TF-IDF Score and Cosine Similarity
- *Searching:* Phrase queries and Field queries

VERSION CONTROL SYSTEM
- Developed a Version Control system in Python.
- *Functionalities:* init, add, status, commit, rollback, retrieve, push and pull

MINI-TORRENT
- Developed a Peer-to-Peer group based file sharing system.
- *Functionalities:* Chunk based sharing, Centralized tracker, Piece selection algorithm
- *Technologies used:* C++, Socket Programming and Multi-Threading

SMART HOME
- Developed a Smart Home with **Raspberry pi 3** and an Android App to operate it.
- *Functionalities:* Controlling home Appliances, Door Lock, Security system, Notifications via email
- *Technologies used:* Python, Android and Socket Programming

COURSE WORK

- *Computer Vision*
- *Information Retrieval and Extraction*
- *Statistical Methods in AI*
- *Optimization Methods*
- *Internals of Application Servers*
- *Distributed Systems*
- *Operating Systems*
- *Data Structures and Algorithms*